

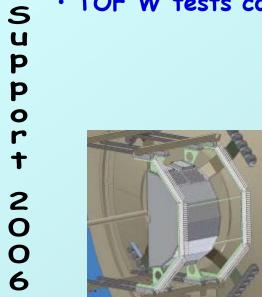
PHENIX WEEKLY PLANNING

6/15/06 Don Lynch



This Week

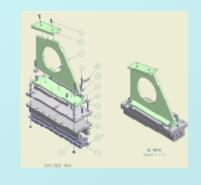
Technica



- · Rec'd MPC N drawings
- · No Access
- · "New" container placed
- · Coordinating techs briefed on tasks.
- · RXNP & HBD fabrication continues
- Shutdown Planning continues

TOF W tests continue, modification decisions made?







PHENIX Shutdown Overview



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Task_Name
PHENIX Shutdown '06
Pre Shutdown Tasks
End of Run 6
Shutdown Preparations
Detector Upgrades
Planned electrical power outage
Subsystem maint/repair tasks
Building and infrastructure tasks
E carriage roll in & setup
RHIC Cooldown Begins
Run Prep
Shutdown Concluded

h_Date 7/2006 1/2006 7/2006
1/2006
7/2006
3/2006
1/2006
3/2006
1/2006
1/2006
1/2006
6/2006
7/2006
7/2006



Prior To Shutdown

n Support

Mechanical design For RXNP HBD cable mangement

Pre Shutdown Tasks

Receive TOF West detectors from VU
TOF West pre-installation tests (hi bay)

Design mounting/install'n for MPC N

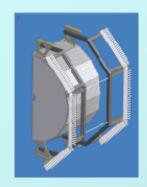
Order/fabricate parts for RXNP/HBD/MPC N

Modify TEC connectors

Design piping route for Bridge water

Work Permits

End of Run 6







60 days

4 wks Complete SDR 6/22

4 wks Complete

0 days Here

4 wks In Progress

6 wks In Progress SDR 6/22

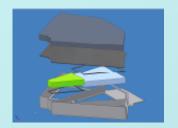
12 wks In Progress

2 wks In Progress

1 wk TBD

1 wk 6/26/06 6/30/06

0 days



		PHENIX	Shutdown 2006 O	Verview
121	0	Tiers (Garner	Demin USTE	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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f		HED carie margement	4140	= ,
1	133	Processo TOF West sistainant from (r)	Diago.	◆ ,409
6		707 West zim enstallable techs (H bay)	31085	*
1		Charge electrical rates in the City	2 100	
R		Charterines parature proprietable is	täyee	
9		Design plying nucleifor Bridge reader	1100	th in
II.	114	End of Run 6	O days	◆ 9/27
11		Studdown Preparations	16 days	
		Detector Linguisdes	27 days	
62		Building and infrastructury tasks	113 days	
17		6 carriage roll in 8 setup	14 days	
(i)	E3	RHIC Cookboom Begins	E-Early)	◆ /tot
14		Run Prep	25 days	
906		Shubdown Concluded	O days	850



Shutdown Prep

16 days

2 days

1 day

1 day

1 day

Shutdown Preparations

Purge gas from all detectors

End of Run party

DAQ tests

Open up & prep

Open rolling woor

Remove rolling wall and plug doors

Take down EC access ladder & fold platforms

Prepare EC for move to AH

Remove beampipe collar

Move MMS full south and restrain

Retract and remove EC to AH

Install 12 ton cart on tracks

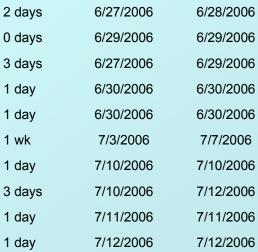
Move beampipe collar to AH

Install decking









7/13/2006

7/17/2006

7/17/2006

7/18/2006

6/27/2006

7/18/2006

7/14/2006

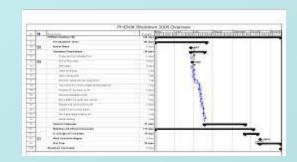
7/17/2006

7/17/2006

7/18/2006









Detector Upgrades

TOF W

Prepare installation Fixtures

Mockup test installation

TOF Mechanical installation

TOF Electrical Installation

RXNP

Prepare for installation

Mechanical installation

Electrical installation

HBD

Prepare for installation

Mechanical installation

Electrical installation

MPC N

Move CM south

Prepare for installation

Mechanical installation

Electrical installation

Move CM North

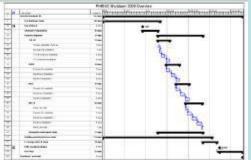




13 days	7/19/2006	8/4/2006
2 days	7/19/2006	7/20/2006
1 day	7/21/2006	7/21/2006
2 days	7/312006	8/1/2006
3 days	8/2/2006	8/4/2006
15 days	7/31/2006	8/18/2006
5 days	7/31/2006	8/4/2006
5 days	8/7/2006	8/11/2006
5 days	8/14/2006	8/18/2006
15 days	8/14/2006	9/1/2006
5 days	8/14/2006	8/18/2006
5 days	8/21/2006	8/25/2006
5 days	8/28/2006	9/1/2006
18 days	8/28/2006	9/20/2006
2 days	8/28/2006	8/29/2006
5 days	8/30/2006	9/5/2006
5 days	9/6/2006	9/12/2006
5 days	9/13/2006	9/19/2006
1 day	9/20/2006	9/20/2006











Subsystems

Task	Duration	Start	End
Subsystem maint/repair tasks	109 days	5/1/06	9/28/06
Prepare EC for subsystems work	1 wk	7/19/06	7/25/06
Magnet subsystems tasks (TBD)	1 day	7/19/06	7/19/06
Aerogel tasks (TBD)	1 day	7/20/06	7/20/06
BBC tasks	50 days	7/21/06	9/28/06
Remove BBC South	2 days	8/21/06	8/22/06
Replace PMT's	13 days	8/23/06	9/12/06
Reinstall BBC South	2 days	9/13/06	9/14/06
Remove BBC North	2 days	8/28/06	8/30/06
Replace PMT's	5 days	8/31/06	9/6/06
Reinstall BBC North	2 days	9/7/06	9/8/06
DC			
HV/LV	2 wks	7/17/06	7/29/06
DC West wire repairs	1 week	9/15/06	9/19/06









Subsystems (continued)

T e c h	Task Subsystem maint/repair tasks	Duration 109 days	Start 5/1/06	End 9/28/06
n i c a	EmCal tasks (EC) EmCal tasks (WC) FCAL tasks (TBD) MPC S repairs	7 days 5 days 1 day	6/27/06 7/10/06 7/27/06	7/7/06 7/15/06 7/27/06 2 wks
ا 5	7/19/06 8/1/06 Mu 7/19/06 9/14/06	ıTr tasks	4 1	42 days
u P	Remove lampshade(s) 7/19/06 Repair HV	8 wks	1 day 7/20/06	7/19/06 9/13/06
p o	Reinstall lampshade(s) MuID tasks (TBD)	1 day 1 day	9/14/06 8/2/06	9/14/06 8/2/06
r t	PC tasks (TBD) RICH tasks (TBD) TEC tasks	1 day 1 day	8/3/06 8/4/06	8/3/06 8/4/06
2 0 0 6	(General Maintenance) TOF E tasks (TBD) ZDC tasks (TBD) Subsystem Survey Other Subsystem tasks (TBD)	9 wks 1 day 1 day 3 wks 6 wks	7/19/06 8/7/06 8/8/06 7/31/06 8/9/06	9/19/06 8/7/06 8/8/06 8/18/06 9/19/06
	OTHER SUDSYSTEM MUSKS (TDU)	O WK3	0/ // 00	7/17/00







Technical Support 2006

Infrastructure Work





Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
AH infrastructure tasks	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
IR infrastructure tasks	18 days	7/17/2006	8/9/2006
Repair water lines to Bridge	1 day	7/17/2006	7/17/2006
Replace emergency fan louvres	1 wk	7/19/2006	7/25/2006
Rewire/add IR Ceiling lights on emergency power	1 wk	7/26/2006	8/1/2006
Move WC away from Wall	1 day	8/2/2006	8/2/2006
Replace WC sliding platform hoisting cables	1 wk	8/3/2006	8/9/2006
Gas Pad	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Gas Mixing House	1 day	5/1/2006	5/1/2006
Exhaust fan maintenance	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Rack Room	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
Counting House	1 day	5/1/2006	5/1/2006
TBD	1 day	5/1/2006	5/1/2006
all other PHENIX infrastructure	113 days	5/1/2006	10/4/2006
New raw materials storage container –painting & doors			
needed	1 day	5/1/2006	5/1/2006
Repair roof leaks	1 day	5/1/2006	5/1/2006
Install bridge access platforms from EC & eyebrow	2 days	10/3/2006	10/4/2006
TBD	1 day	5/1/2006	5/1/2006
Weekly Planning Meeting			9

6/15/2006



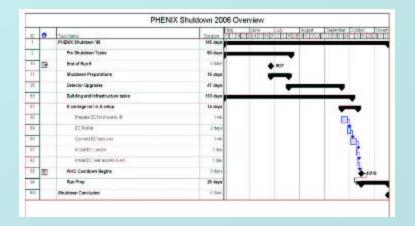
EC Roll-in

E carriage roll in & setup
Prepare EC for move to IR
EC Roll in
Connect EC services
Install EC Ladder
Install EC rear access & ext.

RHIC Cooldown Begins



14 days	9/22/2006	10/11/2006
1 wk	9/22/2006	9/28/2006
2 days	9/29/2006	10/2/2006
1 wk	10/3/2006	10/9/2006
1 day	10/10/2006	10/10/2006
1 day	10/11/2006	10/11/2006
0 days	10/16/2006	10/16/2006





Prep for Run 7

Tech nic u P

RHIC Cooldown Begins
Run Prep
Move MMS full North
Install beam pipe collar
Rebuild Rolling door
Install Plug Door & steel platform
Close rolling door
Pink Sheeting & Blue Sheeting
Start Flammable Gas Flow
All Up Commissioning
Beam in yellow ring
Beam in blue ring

RHIC beam conditioning

Shutdown Concluded

0 days	10/16/2006	10/16/2006
25 days	10/16/2006	11/17/2006
1 day	10/16/2006	10/16/2006
1 day	10/17/2006	10/17/2006
1 wk	10/18/2006	10/24/2006
1 day	10/25/2006	10/25/2006
1 day	10/26/2006	10/26/2006
2 wks	10/27/2006	11/9/2006
1 day	11/10/2006	11/10/2006
5 days	11/13/2006	11/17/2006
1 wk	11/13/2006	11/17/2006
1 wk	11/13/2006	11/17/2006
1 wk	11/13/2006	11/17/2006
0 days	11/17/2006	11/17/2006



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Shutdown 2006 key dates

Technical Supp

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2006

- MPC North & RXNP Safety Reviews June 22
- Run ends June 26
- End of Run Party June 29
- Open Shield wall June 30
- Prep and move EC July 10
- Install TOF W (start) July 17
- Planned electrical outage July 24th-28th (1 week)
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

Subsystems: Get requests for maintenance in early to get on theschedule



Next Week

- · Prepare for RXNP and MPC N Safety Reviews (6/22 10:00 AM)
- · No access scheduled
- TOF W Hi Bay Tests: Acceptance tests (no damage during transit)
- TOF W drill and tap mounting holes
- · Continue shutdown prep



Breaker Safety

Update on breaker analyses and equipment upgrade plans:

Fuse Issues

Siemens Allis Low Voltage Air Circuit Breaker









Next Access Day

Technica Support





TECH ASSIGNMENTS For This Summer's Shutdown

For all new detectors, upgrades, repairs and general shutdown efforts:

Overall supervision: Sal

Electrical task coordination: Frank

Gas systems task coordination: Carter

For 4 new detectors, mechanical support and installation coordination:

TOF West: Kenny

RXNP: John T.

HBD: Mike L.

MPC North: Jimmy



TOF W

Coordinating Tech: Kenny

What to do about High voltage?

Where are the detectors to be installed?





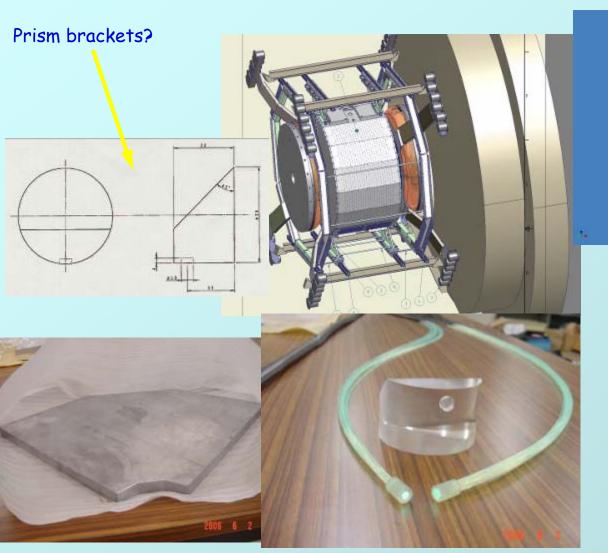






RXNP

Coordinating Tech: John T.

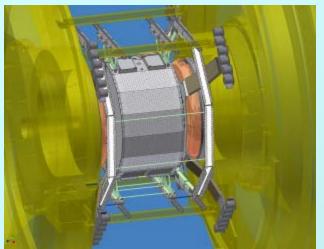


LED Box location?

Safety review documents

Shim machining problems

Weekly Planning Meeting









SB Progress tracking



Technica

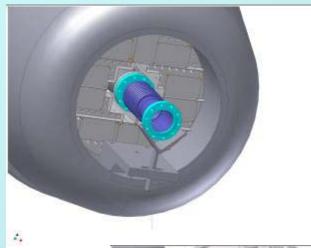
Support 2006

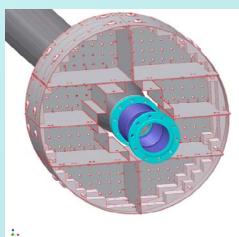
MPC North

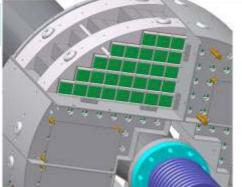
Coordinating Tech: Jimmy

- Model rec'd
- Manufacturing/Assembly drawings
- · Safety Review Documents











MPC North

Technica Support 2006

















Empty octants are installed first.
LED's and LED board are already attached.

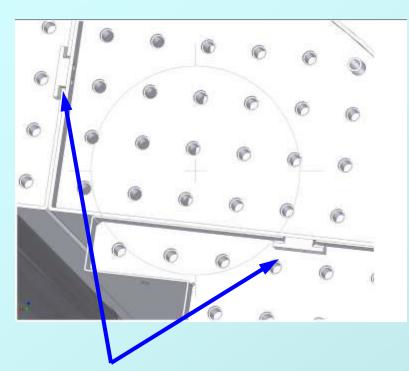
Then modules are individually inserted.

Next APD cable is attached then snaked through cover which is attached.

Finally, standoffs and signal pcbs are attached, wired and routed to MPC N rack.



MPC North



Modules interconnect at rear using tabs as in MPC S

Tabs for MPC N modified for increase clearance and rounded for easy locating and self centering

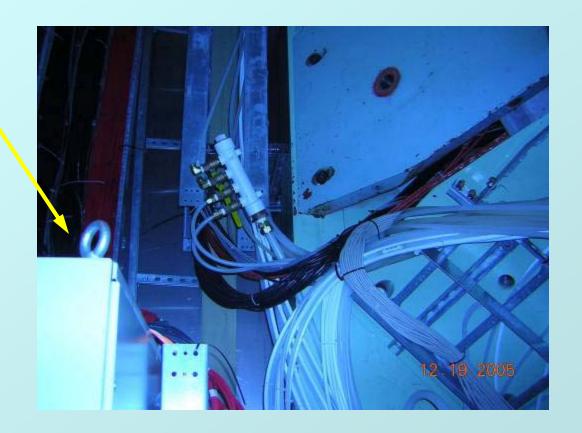




Support 2006

MPC North

MPC N rack to be mounted ontop of MUID rack in NW of IR (on floor near west side of MMN)





Other Projects

Technica Support 2006

Muon RPC

· Nothing New

Beampipe design

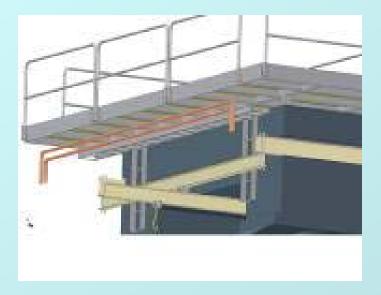
· Nothing new design concept in progress

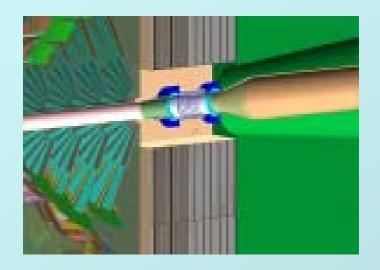
New CM Crane

· Nothing new

Engineering Documentation

· Nothing new





C-A Tasks

Current Tasks

- · General run support/building services
- ·New storage trailer (as promised)
- ·Fix roof leaks
- · HVAC troubleshooting/repair

Tasks for Shutdown 2006

· See Shutdown schedule





Shutdown 2006 key dates

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- End of Run Party June 29
- · Open Shield wall June 30
- · Prep and move EC July 10
- · Install TOF W (start) July 19
- Lost week for planned electrical outage July 24-28
- Install RXNP (start) July 31
- Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)

No Change

- Install MPC North (start no later than) Aug 28
- Start EC roll in Sep. 22
- · Start RHIC Cooldown Oct. 15
- Start Physics data taking Nov. 17

Subsystems:

Get requests for maintenance in early to get on the schedule



Technica Sup p r + 2006

Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm